

TRI On-site and Off-site Disposal or Other Releases, 2002: Chemical Manufacturing (SIC code 28)

| State          | On-site Disposal or Other Releases   |                       |                         |                    |  |   |                                       |                               |                             |                                  |                                  |                    |             | Total On-site<br>Disposal or<br>Other Releases<br>Pounds | Total Off-site<br>Disposal or<br>Other Releases<br>Pounds | Total On-site<br>and Off-site<br>Disposal or<br>Other Releases<br>Pounds |
|----------------|--|-----------------------|-------------------------|--------------------|--|---|---------------------------------------|-------------------------------|-----------------------------|----------------------------------|----------------------------------|--------------------|-------------|--|---|--|
|                | On-site Disposal to Class I Underground Injection Wells, RCRA<br>Subtitle C Landfills, and Other Landfills |                       |                         |                    | Other On-site Disposal or Other Releases |   |                                       |                               |                             |                                  |                                  |                    |             |  |   |  |
|                | RCRA Subtitle C Landfills  |                       | Other On-site Landfills | Subtotal<br>Pounds | Fugitive Air<br>Emissions<br>Pounds      | Point Source<br>Air Emissions<br>Pounds | Surface Water<br>Discharges<br>Pounds | Class II-V<br>Wells<br>Pounds | Land<br>Treatment<br>Pounds | Surface<br>Impoundment<br>Pounds | Other Land<br>Disposal<br>Pounds | Subtotal<br>Pounds |             |  |   |  |
|                | Class I Wells<br>Pounds  | C Landfills<br>Pounds | Landfills<br>Pounds     |                    |  |   |                                       |                               |                             |                                  |                                  |                    |             |  |   |  |
| Alabama        | 0  | 0                     | 255                     | 255                | 2,291,812                                | 3,220,260                               | 2,331,323                             | 0                             | 640                         | 4,932,394                        | 3,690                            | 12,780,119         | 12,780,374  | 3,353,638  | 16,134,012  |  |
| Alaska         | 0  | 0                     | 0                       | 0                  | 140,505                                  | 1,570,266                               | 62,450                                | 11                            | 0                           | 0                                | 250                              | 1,773,482          | 1,773,482   | 0  | 1,773,482   |  |
| Arizona        | 0  | 0                     | 0                       | 0                  | 6,129                                    | 33,454                                  | 0                                     | 0                             | 0                           | 0                                | 0                                | 39,583             | 39,583      | 2,740  | 42,323  |  |
| Arkansas       | 3,209,334  | 0                     | 210,787                 | 3,420,121          | 767,766                                  | 2,649,132                               | 507,526                               | 123,263                       | 1,361                       | 1                                | 2,186                            | 4,051,234          | 7,471,355   | 936,276  | 8,407,631   |  |
| California     | 0  | 52,703                | 1,363                   | 54,066             | 638,231                                  | 870,516                                 | 6,628                                 | 0                             | 3,241                       | 396                              | 4,775                            | 1,523,788          | 1,577,854   | 364,329  | 1,942,183   |  |
| Colorado       | 0  | 0                     | 859                     | 859                | 119,445                                  | 91,031                                  | 5                                     | 0                             | 0                           | 0                                | 4,791                            | 215,273            | 216,132     | 262,396  | 242,396   |  |
| Connecticut    | 0  | 0                     | 0                       | 0                  | 305,603                                  | 164,765                                 | 343,649                               | 0                             | 0                           | 0                                | 117                              | 814,133            | 814,133     | 130,476  | 944,610   |  |
| Delaware       | 0  | 0                     | 2,120                   | 2,120              | 67,764                                   | 873,409                                 | 184,668                               | 0                             | 0                           | 0                                | 0                                | 1,125,841          | 1,127,961   | 3,841,498  | 4,969,459   |  |
| Florida        | 25,525,214   | 0                     | 184,883                 | 25,710,097         | 2,102,161                                | 4,293,181                               | 74,156                                | 88,000                        | 25,229                      | 1,528                            | 105,032                          | 6,689,288          | 32,399,385  | 670,301  | 33,069,686  |  |
| Georgia        | 0  | 15,283                | 0                       | 15,283             | 1,193,302                                | 3,374,612                               | 5,794,645                             | 0                             | 23,416                      | 1,012,716                        | 0                                | 11,398,691         | 11,413,974  | 130,914  | 11,544,888  |  |
| Idaho          | 0  | 0                     | 34,996                  | 34,996             | 59,574                                   | 287,977                                 | 0                                     | 0                             | 16,324                      | 0                                | 1,757                            | 365,632            | 400,628     | 45,934   | 446,562   |  |
| Illinois       | 0  | 0                     | 7,087                   | 7,087              | 1,592,743                                | 7,305,506                               | 358,902                               | 0                             | 2,313                       | 2,098                            | 253,002                          | 9,514,565          | 9,521,652   | 4,129,475  | 13,651,127  |  |
| Indiana        | 389,097  | 265                   | 591                     | 389,953            | 1,619,833                                | 1,799,254                               | 436,782                               | 0                             | 116,915                     | 750                              | 1,131                            | 3,974,666          | 4,364,618   | 902,897  | 5,267,516   |  |
| Iowa           | 0  | 0                     | 1,430                   | 1,430              | 1,708,143                                | 2,034,687                               | 282,740                               | 0                             | 0                           | 0                                | 1,005                            | 4,026,575          | 4,028,005   | 192,662  | 4,220,667   |  |
| Kansas         | 606,434  | 0                     | 0                       | 606,434            | 314,779                                  | 1,990,506                               | 115,209                               | 500                           | 0                           | 162                              | 1,455                            | 2,422,612          | 3,029,046   | 2,049,865  | 5,078,911   |  |
| Kentucky       | 0  | 0                     | 43,852                  | 43,852             | 4,226,655                                | 6,526,351                               | 449,222                               | 0                             | 674,099                     | 0                                | 40,892                           | 11,917,219         | 11,961,071  | 825,301  | 12,786,372  |  |
| Louisiana      | 30,793,590   | 17,228                | 3,799,660               | 34,610,478         | 7,000,194                                | 24,722,297                              | 5,796,936                             | 0                             | 4,466                       | 1,330,424                        | 134,776                          | 38,989,093         | 73,599,571  | 1,660,643  | 75,260,214  |  |
| Maine          | 0  | 0                     | 0                       | 0                  | 3,703                                    | 22                                      | 536                                   | 0                             | 0                           | 0                                | 0                                | 4,261              | 4,261       | 0  | 4,261   |  |
| Maryland       | 0  | 0                     | 1,413,383               | 1,413,383          | 144,827                                  | 1,494,308                               | 3,049,119                             | 0                             | 0                           | 16,294                           | 5                                | 4,704,553          | 6,117,936   | 164,444  | 6,282,379   |  |
| Massachusetts  | 0  | 3                     | 897                     | 900                | 152,281                                  | 193,960                                 | 40                                    | 0                             | 0                           | 0                                | 0                                | 346,281            | 347,181     | 111,865  | 459,046   |  |
| Michigan       | 2,723,859  | 15,585                | 12,826                  | 2,752,270          | 752,120                                  | 1,450,762                               | 103,597                               | 0                             | 35                          | 0                                | 1,141                            | 2,307,655          | 5,059,925   | 435,662  | 5,495,587   |  |
| Minnesota      | 0  | 0                     | 0                       | 0                  | 40,018                                   | 342,719                                 | 0                                     | 0                             | 0                           | 0                                | 1,330                            | 384,067            | 384,067     | 196  | 384,263   |  |
| Mississippi    | 11,614,190   | 0                     | 931,609                 | 12,545,799         | 1,478,277                                | 3,950,013                               | 1,111,954                             | 0                             | 0                           | 3,549,985                        | 5,575                            | 10,095,804         | 22,641,603  | 61,444   | 22,703,047  |  |
| Missouri       | 0  | 111,436               | 719                     | 112,155            | 573,496                                  | 7,527,451                               | 664,442                               | 0                             | 1,532                       | 43,110                           | 126                              | 8,810,157          | 8,922,312   | 276,632  | 9,198,944   |  |
| Montana        | 0  | 6,807                 | 0                       | 6,807              | 8,760                                    | 80,659                                  | 0                                     | 0                             | 0                           | 0                                | 464                              | 89,883             | 96,690      | 1,269  | 97,959  |  |
| Nebraska       | 0  | 0                     | 0                       | 0                  | 275,403                                  | 410,940                                 | 45,498                                | 0                             | 294                         | 0                                | 500                              | 732,635            | 732,635     | 3,495,864  | 4,228,499   |  |
| Nevada         | 0  | 0                     | 0                       | 0                  | 79,379                                   | 131,646                                 | 0                                     | 0                             | 0                           | 29,852                           | 120                              | 240,997            | 240,997     | 1,585,081  | 1,826,078   |  |
| New Hampshire  | 0  | 0                     | 0                       | 0                  | 6,543                                    | 11,611                                  | 317                                   | 0                             | 0                           | 0                                | 0                                | 18,471             | 18,471      | 22,443   | 40,914  |  |
| New Jersey     | 0  | 118,232               | 0                       | 118,232            | 1,129,267                                | 1,069,191                               | 3,180,347                             | 0                             | 0                           | 0                                | 0                                | 5,378,804          | 5,497,036   | 1,958,092  | 7,455,128   |  |
| New Mexico     | 0  | 0                     | 0                       | 0                  | 3,157                                    | 3,597                                   | 50                                    | 0                             | 0                           | 0                                | 0                                | 6,804              | 6,804       | 38,239   | 45,043  |  |
| New York       | 0  | 604                   | 0                       | 604                | 871,694                                  | 1,910,562                               | 59,541                                | 0                             | 114                         | 0                                | 5                                | 2,841,917          | 2,842,521   | 402,898  | 3,245,419   |  |
| North Carolina | 0  | 8,500                 | 201,255                 | 209,755            | 1,850,859                                | 4,200,184                               | 778,888                               | 0                             | 54,303                      | 440,552                          | 1,011                            | 7,325,797          | 7,535,552   | 2,527,309  | 10,062,861  |  |
| North Dakota   | 0  | 0                     | 482                     | 482                | 6,245                                    | 100,418                                 | 0                                     | 0                             | 0                           | 0                                | 482                              | 107,144            | 107,626     | 25,124   | 132,750   |  |
| Ohio           | 13,585,196   | 3,059                 | 982                     | 13,589,237         | 1,603,815                                | 11,576,942                              | 305,405                               | 0                             | 0                           | 259                              | 21,506                           | 13,507,928         | 27,097,165  | 2,633,119  | 29,730,284  |  |
| Oklahoma       | 600  | 55,476                | 1,679                   | 57,755             | 926,228                                  | 5,666,432                               | 839,022                               | 0                             | 0                           | 23,000                           | 678                              | 7,455,360          | 7,513,115   | 176,263  | 7,689,378   |  |
| Oregon         | 0  | 0                     | 166                     | 166                | 258,727                                  | 708,125                                 | 59,338                                | 0                             | 0                           | 0                                | 0                                | 122,779            | 1,148,969   | 1,149,135  | 8,298   |  |
| Pennsylvania   | 0  | 260                   | 1,080                   | 1,340              | 626,601                                  | 2,076,660                               | 132,051                               | 0                             | 0                           | 15,131                           | 5,394                            | 2,855,838          | 2,857,178   | 1,089,856  | 3,947,033   |  |
| Puerto Rico    | 0  | 250                   | 0                       | 250                | 738,255                                  | 798,543                                 | 249                                   | 0                             | 0                           | 0                                | 2,478                            | 1,539,525          | 1,539,775   | 389,698  | 1,929,473   |  |
| Rhode Island   | 0  | 0                     | 0                       | 0                  | 42,404                                   | 34,878                                  | 11,203                                | 0                             | 0                           | 0                                | 0                                | 88,484             | 88,484      | 1,545  | 90,029  |  |
| South Carolina | 0  | 250                   | 513,653                 | 513,903            | 1,754,798                                | 5,427,406                               | 1,927,195                             | 0                             | 174                         | 0                                | 7,312                            | 9,116,885          | 9,630,788   | 411,396  | 10,042,184  |  |
| South Dakota   | 0  | 0                     | 0                       | 0                  | 513                                      | 61,322                                  | 0                                     | 0                             | 0                           | 0                                | 0                                | 61,835             | 61,835      | 0  | 61,835  |  |
| Tennessee      | 0  | 13,216                | 14,992,781              | 15,005,997         | 3,093,770                                | 25,770,439                              | 627,060                               | 0                             | 0                           | 6                                | 7,625                            | 29,498,901         | 44,504,898  | 282,329  | 44,787,227  |  |
| Texas          | 82,196,610   | 197,456               | 137,908                 | 82,531,973         | 19,492,428                               | 23,602,508                              | 20,306,265                            | 0                             | 25,592                      | 2,009,719                        | 371,786                          | 65,808,299         | 148,340,272 | 6,531,459  | 154,871,731   |  |
| Utah           | 0  | 0                     | 0                       | 0                  | 45,316                                   | 121,030                                 | 0                                     | 0                             | 61,666                      | 97,514                           | 1,110                            | 326,637            | 326,637     | 54,090   | 380,727   |  |
| Vermont        | 0  | 0                     | 0                       | 0                  | 8,263                                    | 0                                       | 0                                     | 0                             | 0                           | 0                                | 0                                | 8,263              | 8,263       | 0  | 8,263   |  |
| Virginia       | 0  | 0                     | 0                       | 0                  | 1,075,641                                | 5,722,444                               | 3,167,957                             | 0                             | 0                           | 0                                | 275                              | 9,966,317          | 9,966,317   | 154,321  | 10,120,638  |  |
| Washington     | 0  | 130                   | 0                       | 130                | 105,246                                  | 837,889                                 | 14,769                                | 0                             | 64,500                      | 1,000                            | 106                              | 1,023,510          | 1,023,640   | 490,241  | 1,513,880   |  |
| West Virginia  | 0  | 5,614                 | 15,427                  | 21,041             | 1,619,970                                | 3,499,111                               | 3,602,984                             | 0                             | 0                           | 1,077                            | 1,174                            | 8,724,317          | 8,745,358   | 866,011  | 9,611,369   |  |
| Wisconsin      | 0  | 0                     | 0                       | 0                  | 66,476                                   | 265,839                                 | 1,549                                 | 0                             | 0                           | 0                                | 0                                | 333,863            | 333,863     | 108,740  | 442,603   |  |
| Wyoming        | 6,806,800  | 0                     | 0                       | 6,806,800          | 250,122                                  | 289,486                                 | 2,155                                 | 0                             | 0                           | 22,748                           | 1,401                            | 565,912            | 7,372,712   | 425  | 7,373,137   |  |
| Total          | 177,450,924  | 622,356               | 22,512,729              | 200,586,009        | 63,239,241                               | 171,144,303                             | 56,736,371                            | 211,774                       | 1,076,214                   | 13,530,718                       | 1,109,243                        | 307,047,864        | 507,633,874 | 43,567,567   | 551,201,441   |  |

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at [www.epa.gov/tri/tridata/index.htm#pdr](http://www.epa.gov/tri/tridata/index.htm#pdr).

On-site Disposal or Other Releases include Underground Injection to Class I Wells (Section 5.4.1), RCRA Subtitle C Landfills (5.5.1A), Other Landfills (5.5.1B), Fugitive or Non-point Air Emissions (5.1), Stack or Point Air Emissions (5.2), Surface Water Discharges (5.3), Class II-V Wells (5.4.2), Land Treatment (5.5.2), Surface Impoundments (5.5.3) and Other Land Disposal (5.5.4). Off-site Disposal or Other Releases include from Section 6.2 Underground Injection (M71), RCRA Subtitle C Landfills (M65), Other Landfills (M64, M72), Storage Only (M10), Solidification/Stabilization - Metals and Metal Category Compounds only (M41 or M40), Wastewater Treatment (excluding POTVs) - Metals and Metal Category Compounds only (M62 or M61), Surface Impoundments (M63), Land Treatment (M73), Other Land Disposal (M79), Other Off-site Management (M90), Transfers to Waste Broker - Disposal (M94, M91), and Unknown (M99) and, from Section 6.1 Transfers to POTWs (metals and metal category compounds only).

Does not include Off-site Disposal or Other Releases transferred to other TRI facilities that reported the amounts as on-site disposal or other releases.

Facilities/forms are included in the manufacturing industry categories (SIC Codes 20-39) if they did not report a SIC code in the other industries. Forms that reported more than one 2-digit SIC code within the range 20 to 39 are assigned to the "multiple codes" category. Facilities/forms are included in the other industry categories if the facility/form has a SIC code in the other industries and no SIC code in 20-39. If the facility reported in any year prior to 1998 and the facility/form has a combination of manufacturing and other industry SIC codes, then the facility/form is included in the manufacturing industry category. If the facility reported for the first time in 1998 or later and the facility/form has a combination of manufacturing and other industry SIC codes, then the facility/form is included in the other industry category. Forms with no 2-digit SIC code are included in the "no codes" category. One facility, Phelps Dodge Miami of Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 2002 and previous years have been included in SIC code 10 for the purpose of this analysis.